Bruhat Bangalore Mahanagara Palike

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Modified Schedule - B

Sl No	Description of Item	Unit	Quantity	Rate, Rs	
				In Figures	In Words
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	113.40	111.30	Rupees One Hundred Eleven And Paise Thirty Only
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	149.25	214.50	Rupees Two Hundred Fourteen And Paise Fifty Only
3	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 6.00 km and complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	2615.40 2616.21	57.02	Rupees Fifty Seven And Paise Two Only
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	46.06	5421.90	Rupees Five Thousand Four Hundred Twenty One And Paise Ninety Only
	Above 125%		35.70 35.63	5421.90	Rupees Five Thousand Four Hundred Twenty One And Paise Ninety Only
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 10cm including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	98.48	7273.72	Rupees Seven Thousand Two Hundred Seventy Three And Paise Seventy Two Only
	Above 125%		49.06 51.11	7273.72	Rupees Seven Thousand Two Hundred Seventy Three And Paise Seventy Two Only

	Description of Item	Unit	Quantity	Rate, Rs	
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6	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Tn	4.93	72326.98	Rupees Seventy Two Thousand Three Hundred Twenty Six And Paise Ninety Eight Only
	Above 125%		2.30 2.46	72326.98	Rupees Seventy Two Thousand Three Hundred Twenty Six And Paise Ninety Eight Only
7	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	50.23 50.62	4871.76	Rupees Four Thousand Eight Hundred Seventy One And Paise Seventy Six Only
8	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications. including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	19.17	5599.98	Rupees Five Thousand Five Hundred Ninety Nine And Paise Ninety Eight Only
9	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	41.25	3640.00	Rupees Three Thousand Six Hundred Forty Only
	Above 125%		6.75 4.59	3640.00	Rupees Three Thousand Six Hundred Forty Only
10	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	m	695.60	1145.86	Rupees One Thousand One Hundred Forty Five And Paise Eighty Six Only
11	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, 60mm thick using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	881.04 876.96	1176.60	Rupees One Thousand One Hundred Seventy Six And Paise Sixty Only

	Description of Item	Unit	Quantity	Rate, Rs	
				In Figures	In Words
12	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Nos	2655.00	432.48	Rupees Four Hundred Thirty Two And Paise Forty Eight Only
13	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge Above 125%	Sqm	418.15 419.91 416.25 - upto	84.80	Rupees Eighty Four And Paise Eighty Only
14	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	1.90 625.09	Above 125% 1855.00	Rupees One Thousand Eight Hundred Fifty Five Only
	Above 125%		319.34 322.73	1855.00	Rupees One Thousand Eight Hundred Fifty Five Only
15	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	1483.88 .89	2001.28	Rupees Two Thousand One And Paise Twenty Eight Only
	Above 125%		130.11 134.08	2001.28	Rupees Two Thousand One And Paise Twenty Eight Only
16	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	4371.91 4364.97	29.68	Rupees Twenty Nine And Paise Sixty Eight Only
17	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	5989.46 5947.2	5.30	Rupees Five And Paise Thirty Only

	Description of Item	Unit	Quantity	Rate, Rs	
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18	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	8517.14 8349.74	12.72	Rupees Twelve And Paise Seventy Two Only
19	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	425.85 417.49	6858.20	Rupees Six Thousand Eight Hundred Fifty Eight And Paise Twenty Only
20	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Cum	340.68 333.99	8049.64	Rupees Eight Thousand Forty Nine And Paise Sixty Four Only
21	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Sqm	201.43	454.74	Rupees Four Hundred Fifty Four And Paise Seventy Four Only

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22	(SRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge	Nos	300.00	357.22	Rupees Three Hundred Fifty Seven And Paise Twenty Two Only

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